

CW-7001, for N x1, (N+1) x1 end pump combiner, up to 37x1 or (36+1) x1

CW-7002, for (N+1) x1 side pump combiner, N≤6

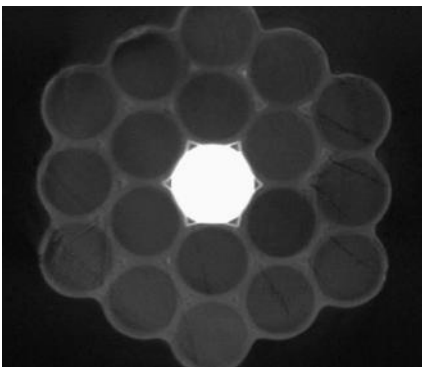
High power fiber optic systems are constantly evolving and so are their internal optical components. The Lighttel CW-7000 series workstation is a very useful tool to aid in the development and manufacturing of fiber bundle tapering and fiber laser pump combiner manufacturing. Ideal for production or R&D, the CW-7000 is customized for either **End-Pump** Combiner or **Side-Pump** Combiner fabrication.



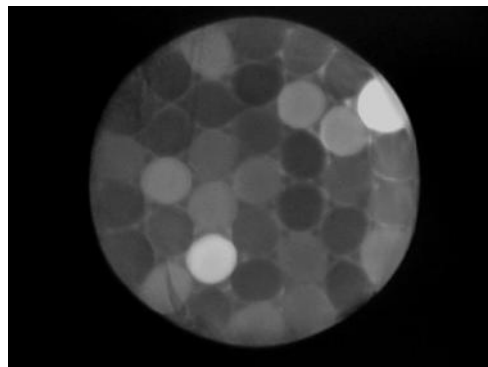
The CW-7000 series combiner workstation was designed based on Lighttel's decades of practice in fiber fusion technology and hands-on experience in manufacturing fiber optic pump combiners. With our specially simplified fiber loading and holding fixtures, there is no need to use or taper any type of glass tubes or capillaries. The fabrication process is simple and easy to learn. Also, the fiber holder/fixtures are virtually maintenance-free and extremely easy to exchange for different fiber sizes and fiber counts.

Comprehensive software features include highly configurable dynamic pulling, torch scanning, gas flow control and cleaver positioning. These features allow the user to control most parameters and customize their own recipe, making the workstation ideal for both production and research.

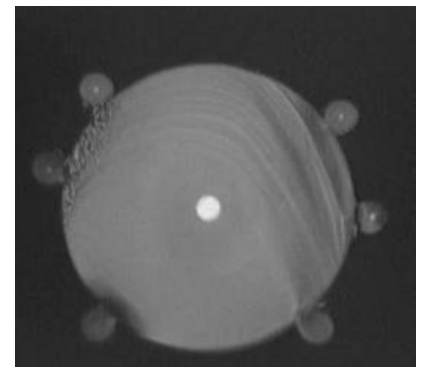
Cross-section Images



(18+1) X 1 End-Pump Combiner



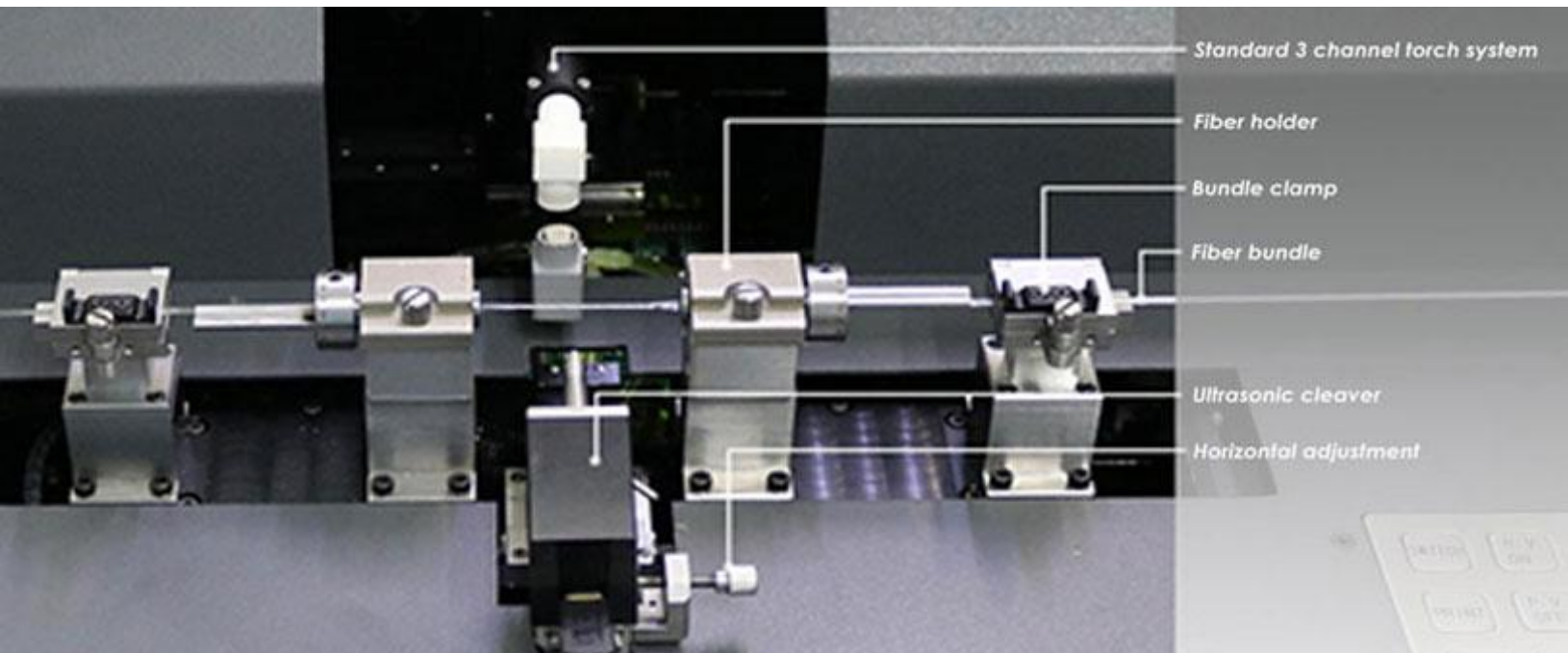
37x1 End-Pump Combiner



(6+1) x1 Side-Pump Combiner

→ Key Features

- Simple fixture design allows the fiber to be easily loaded. No glass tubes or capillaries are required.

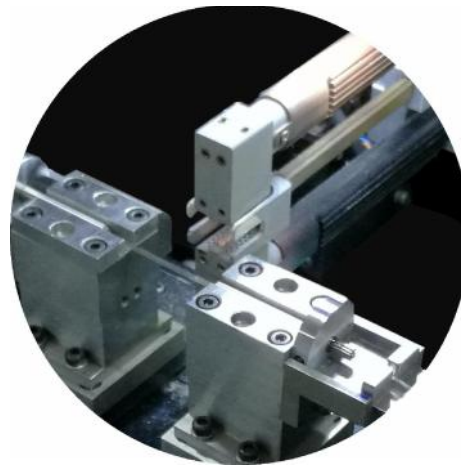


CW-7000 Series Central View

- Interchangeable fiber holder/fixture enables the user to quickly shift between different fiber sizes and/or fiber counts with no tools needed. The CW-7001-Base comes with a standard 7-fiber holder to produce Nx1 or (N+1)x1 end pump (up to 7 fibers), with optional fixtures to hold up to 19 fibers or 37 fibers. The CW-7002-Base is offered with standard (6+1) X1 side pump fixtures.



Multi-fiber Holder



Hybrid Linear Torch System with Micro Nozzle

- The hybrid torch system utilizes multiple gas flow channels to optimize the flame width, shape and temperature for different applications. The CW-7000 series workstations are equipped with a 3-channel circular torch system as standard. The customer can choose to use H₂+O₂ or H₂+H₂+O₂ combination, as needed. A 4-channel circular torch (top H₂+O₂, bottom H₂+O₂) and a 4-channel linear nozzle system (which generates a flat and even heating plane) are optional.

→ Specifications

General	
Model number	CW-7000 Series, CW-7001, CW-7002
Package Description	<p>CW-7001, end-pump configuration, base model configured for 7x1, (6+1)x1, with ultrasonic cleaver and bundle clamp, 4x mass flow controller, 3-channel circular torch, optional fiber holders including:</p> <p>FIBERHOLDER-07-XXX, fiber holder for up to 7 fibers, FIBERHOLDER-19-XXX, fiber holder for up to 19 fibers, FIBERHOLDER-37-XXX, fiber holder for up to 37 fibers, -XXX refers to the fiber buffer diameter (in μm)</p> <p>CW-7002, side-pump configuration, for (N+1)x1 side-pump combiner, N up to 6, 4x MFC, 3-channel circular torch, with packaging holder and UV lamps</p> <p><i>*CW-7001 and CW-7002 platforms are interchangeable, an upgrade is available on either model by purchasing an additional platform.</i></p>
Input	AC 90-240V, 50/60Hz, power consumption 150W Max
Dimensions	570mm(W) X 195mm(H) x 470mm(D)
Weight	68lbs
Mass flow controller	
	4 units by standard
Power	DC24V, 60-130mA
Communication with PC	RS232 port
Gas Consumption	300sccm/min Max per channel, Optional 1000sccm/min per channel
Gas Inlet	¼" OD tubing by default
UV Lamp	
UV Source	UV LED
UV Wavelength	365nm (UVA)